

**WHAT IS CLAIMED IS:**

1. A force-control method for a dual coil electric beating device having a single chip and two coils for driving an impact rod to displace as at least one of two coils are induced, comprising the steps of:

5       programming the single chip to control conduction time periods of the two coils so as to control the displacement of the impact rod.

2. The force-control method for a dual coil electric beating device as claimed in 1, wherein two coils are actuated at different timing.

3. The force-control method for a dual coil electric beating device as  
10       claimed in 1, wherein each coil is connected to a switch as a safety switch so as to provide a safety function.

4. A force-control method for a dual coil electric beating device having a single chip; an elastomer connected to an impact rod; and two coils for driving the impact rod as at least one of two coils are induced,  
15       comprising the steps of:

      programming the single chip to control conduction time periods of the two coils;

      actuating at least one of the two coils to deform the elastomer according to the programming in the single chip;

20       de-actuating the actuating coils so as to restore the elastomer to displace the impact rod;

      wherein the movement of the impact rod is controlled by the conduction time periods of the two coils which are determined by the programming of the single chip.

25       3. The force-control method for a dual coil electric beating device as

claimed in 1, wherein each coil is connected to a switch as a safety switch so as to provide a safety function.